

Title (en)

UNDERLAYER FILM FORMING COMPOSITION FOR SELF-ASSEMBLED FILMS

Title (de)

UNTERSCHICHTFILMBILDENDE ZUSAMMENSETZUNG FÜR SELBSTAUFBÄUENDE FILME

Title (fr)

COMPOSITION FILMOGÈNE DE SOUS-COUCHE POUR FILMS AUTO-ASSEMBLÉS

Publication

EP 2832807 A4 20151021 (EN)

Application

EP 13769608 A 20130322

Priority

- JP 2012071803 A 20120327
- JP 2013058333 W 20130322

Abstract (en)

[origin: EP2832807A1] There is provided an underlayer film-forming composition which is used for an underlayer for a self-assembled film. An underlayer film-forming composition for self-assembled films, comprising a polysiloxane and a solvent. The polysiloxane may be a hydrolysis-condensation product of a silane containing a phenyl group-containing silane, or a hydrolysis-condensation product of a silane containing a silane of Formula (1) [R₂Si(R₁)₃(1)] wherein R₁ is an alkoxy group, an acyloxy group, or a halogen atom, and R₂ is an organic group containing a benzene ring optionally having a substituent and is a group bonded to the silicon atom through a Si-C bond, in a ratio of 10 to 100% by mol relative to the total silane, or a hydrolysis-condensation product of silanes containing the silane of Formula (1), a silane of Formula (2) [R₄Si(R₃)₃(2)], and a silane of Formula (3) [Si(R₅)₄(3)] in a ratio of the silane of Formula (1):the silane of Formula (2):the silane of Formula (3) of 10 to 100:0 to 90:0 to 50 in terms of % by mol relative to the total silane:

IPC 8 full level

B05D 3/10 (2006.01); **C09D 5/00** (2006.01); **C09D 183/04** (2006.01); **G03F 7/11** (2006.01); **G03F 7/26** (2006.01); **H01L 21/027** (2006.01)

CPC (source: EP US)

B05D 1/005 (2013.01 - US); **B05D 3/0254** (2013.01 - US); **C08G 77/80** (2013.01 - EP US); **C09D 5/00** (2013.01 - EP US);
C09D 5/002 (2013.01 - EP US); **C09D 183/04** (2013.01 - EP US); **G03F 7/0002** (2013.01 - EP US); **H01L 21/0332** (2013.01 - EP US)

Citation (search report)

- [XYI] EP 2249204 A1 20101110 - NISSAN CHEMICAL IND LTD [JP]
- [XYI] EP 2372458 A1 20111005 - NISSAN CHEMICAL IND LTD [JP]
- [XYI] WO 2011105368 A1 20110901 - NISSAN CHEMICAL IND LTD [JP], et al
- [Y] JP 2011122081 A 20110623 - NISSAN CHEMICAL IND LTD
- [Y] EP 1973001 A1 20080924 - XEROX CORP [US]
- [XP] EP 2540780 A1 20130102 - SHINETSU CHEMICAL CO [JP]
- [XP] EP 2560049 A2 20130220 - SHINETSU CHEMICAL CO [JP]
- See references of WO 2013146600A1

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EP2839341A4; US9249013B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

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KR 102126787 B1 20200625; KR 20140138881 A 20141204; TW 201400985 A 20140101; TW I584072 B 20170521; US 10000664 B2 20180619;
US 2015118396 A1 20150430; WO 2013146600 A1 20131003

DOCDB simple family (application)

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TW 102110903 A 20130327; US 201314388518 A 20130322